

# **REAL RESULTS**

## Austria: ESS<sup>®</sup> Sand-Control Solution for Gas-Storage Well Leads to Field Production Record

#### **Objectives**

- Control sand production in a gas-storage well.
- Maximize productivity of well and improve operational efficiency.

#### Results

- Various completion options (standalone screen, gravel pack, and *ESS* expandable sand screen) were appraised by Weatherford.
- Weatherford recommended the *ESS* approach to provide a compliant sandface completion that would remove the annulus, stabilize the formation face, render a large ID and open area, present a lower risk for deployment, and facilitate the cleanup and displacement of drilling mud. Additionally, the *ESS* completion would simplify logistics and not require gravel pumping.
- ESS joints (5-1/2 in.) were successfully installed and compliantly expanded to 4,970 ft (1,515 m) total depth (TD). A 9 5/8- x 7 5/8-in. EXR single-trip hanger was set at 4,518 ft (1,377 m), and spaced out with 230 ft (70 m) of 7 5/8-in. blank pipe.
- The operator's post-installation log confirmed compliant expansion of the ESS system.

### Value to Client

- With the increased ID and open area, the well achieved a significantly better flowrate than the offset openhole gravel-pack well.
- The well flowed at 900,000 m<sup>3</sup>/d during the winter period a new production record for the field and sufficient to provide a large portion of Austria's domestic energy demands through the winter months of 2008 to 2009.
- Single-trip expansion of the completion reduced the rig time that would have been required with a gravel pack.

Weatherford International Ltd. 515 Post Oak Blvd., Suite 600 Houston, Texas 77027 USA Tel: 713-693-4000 weatherford.com

OMV Austria Wolfgang Überer



Weatherford's *ESS* system reduced rig time that would have been required with a gravel pack in a gas storage well and achieved record production rates for the Schoenkirchen field.

Client OMV Austria

Location Schoenkirchen field, Austria

Well Type Gas storage

Hole Size and Angle 8-3/8 in., 87°

Casing Size 9-5/8 in.

Setting Depths Casing: 4,554 ft (1,388 m) TD: 4,970 ft (1,515 m)

Bullnose: 4,925 ft (1,501 m)

Total ESS Length 163 ft (50 m)

#### **Products/Services**

- ESS expandable sand screen system
- EXR single-trip hanger

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